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P. 885

Appl. No.09/781,090
Profile. Andt. following RCE of Jan.14, 2005, dated Jan.25, 2005
Reply to Office action of Jan.03, 2005

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## Amendments to the Claims (Clean Version):

Listing of Claims

What is claimed is:

1 - 20 (canceled)

21 (new): A vehicle comprising:

- at least one large annulate wheel with a large toroidal hub, and a correspondingly large toroidal axie joined to said vehicle to rotatably position and urge said large toroidal hub to effect rotatory movements of said large annulate wheel;
- at least one fully closed toroidal rotor with magnetic and/or electromagnetic means of an electric motor, attached to or integrated with said large toroidal hub;
- at least one stator with magnetic and/or electromagnetic means of said electric motor, attached to or integrated with said large toroidal ade;
- at least one opening fully encircled by said fully closed toroidal rotor with magnetic and/or electromagnetic means of said electric motor, which is large enough to allow the entry and exit of a passenger of said vehicle, through said large toroidal axie;
- a bearing means linked to said large toroidal hub and said large toroidal axie to decrease the friction between said large toroidal hub and said large toroidal axie during said rotatory movements of said large annulate wheel;
- a source of electric power with said electric power conducting through

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electrical and/or electronic processing unit or units to said electric motor to rotatably urge said electric motor which mechanically transfers torque to said large annulate wheel; and

at least one more said large annulate wheel or any other wheel, placed at an axial distance from the first said large annulate wheel, linked rotatably to said vehicle, and rotatably urged by a torque-giving power source.

22 (new): A vehicle in accordance with claim 21, wherein said stator with magnetic and/or electromagnetic means of said electric motor is semi-annular in axial profile.

23 (new): A vehicle in accordance with claim 21, wherein said electric motor is a permanent-magnet ac motor with or without magnetic sensors positioned on said stator with magnetic and/or electromagnetic means of said electric motor.

24 (new): A vehicle in accordance with claim 21, wherein the addition of a set of hook or hitch means on the rear end of said vehicle converts said vehicle into a traction vehicle.

25 (new): A plurality of vehicles with each vehicle in accordance with claim 21, wherein the first said vehicle has an electronic communication linking means to exchange data from said electrical and/or electronic processing unit or units of the first said vehicle with data from said electrical and/or electronic processing unit or units of another said vehicle, and so on, to effect the formation of an electronically linked enumeration of vehicles; and said electronically linked enumeration of vehicles is movably steered by the manipulation of said

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data from said electrical and/or electronic processing unit or units of the first said vehicle, mainly at the discretion of one said passenger of the first said vehicle.

26 (new): A vehicle in accordance with claim 21, wherein said opening fully encircled by said fully closed toroidal rotor with magnetic and/or electromagnetic means of said electric motor has full or partial cover means hinged or linked movably either to said large toroidal axie or to said vehicle.

27 (new): A vehicle comprising:

at least one toroidal electric motor with the rotor and the stator of said toroidal electric motor formed toroidally;

said rotor of said toroidal electric motor angularly and fully encircling said stator of said toroidal electric motor, the curved exterior of said rotor of said toroidal electric motor having a ground-contact surface which permanently or occasionally remains in contact with the surface on which said vehicle travels:

said stator of said toroidal electric motor angularly and fully encircled by said rotor of said toroidal electric motor having opening means disposed in the area of the inner circle of the outer toroidal form of said toroidal electric motor, for passage of the occupant or occupants of said vehicle;

said stator of said toroidal electric motor linked with joining means to the body of said vehicle; and

at least one powered wheel.

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28 (new): A vehicle in accordance with claim 27, wherein said stator of said toroidal electric motor is semi-annular in axial profile.

29 (new): A vehicle in accordance with claim 27, wherein said toroidal electric motor is a permanent-magnet ac motor with or without magnetic sensors positioned on said stator of said toroidal electric motor.

30 (new): A vehicle in accordance with claim 27, wherein the addition of a set of hook or hitch means on the rear end of said vehicle converts said vehicle into a traction vehicle.

31 (new): A vehicle in accordance with claim 27, wherein said vehicle has a linking means of electronic communication to exchange the speed data of said toroidal electric motor or motors of said vehicle with the speed data of another toroidal electric motor or motors fully identical to said toroidal electric motor of another vehicle fully identical to said vehicle, and so on, forming an electronically linked train of vehicles, each vehicle from said electronically linked train of vehicles fully identical to said vehicle.

32 (new): A vehicle in accordance with claim 27, wherein said opening means fully encircled by said rotor of said toroidal electric motor has or have full or partial cover means hinged or movably linked either to said stator of said toroidal electric motor or to the body of said vehicle.

33 (new): A vehicle, the center of gravity of said vehicle in the ground-contacting half of the horizontal section of said vehicle, comprising:

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one large annulate wheel; said large annulate wheel comprising

- a large toroidal hub and a correspondingly large toroidal aide joined to said vehicle to rotatably position and urge said large toroidal hub to effect rotatory movements of said large annulate wheel;
- at least one full rotor with magnetic and/or electromagnetic means of an electric motor, attached to or integrated with said large toroidal hub;
- at least one stator with magnetic and/or electromagnetic means of said electric motor, attached to or integrated with said large toroidal axie;
- at least one opening always fully encircled by said full rotor with magnetic and/or electromagnetic means of said electric motor, which is large enough to allow the entry and exit of a passenger of said vehicle, through said large toroidal axie:
- a bearing means linked to said large toroidal hub and said correspondingly large toroidal axie to decrease the friction between said large toroidal hub and said large toroidal axie during said rotatory movements of said large annulate wheel;
- one more said large annulate wheel placed apart near-coaxially from the first said large annulate wheel:
- a source of electric power connected by electrical and/or electronic connecting and processing units to each said electric motor on each said large annulate wheel, to rotatably urge each said electric motor mechanically transferring a torque to each said large annulate wheel; and
- seating means to allow the passenger or passengers of said vehicle to sit at will facing any of the two ends of said vehicle, conventionally defined as the front end and the rear end.

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34 (new): A vehicle in accordance with claim 33, wherein said stator with magnetic and/or electromagnetic means of said electric motor is semi-annular in axial profile.

35 (new): A vehicle in accordance with claim 33, wherein said electric motor is a permanent-magnet ac motor with or without magnetic sensors positioned on said stator with magnetic and/or electromagnetic means of said electric motor.

36 (new): A vehicle in accordance with claim 33, wherein the addition of a set of hook or hitch means on the rear end of said vehicle converts said vehicle into a traction vehicle.

37 (new): A vehicle in accordance with claim 33, wherein said vehicle has an electronic communication linking means to exchange data from said electrical and electronic connecting and processing units of said vehicle with data from the electrical and electronic connecting and processing units of another vehicle, and so on, forming a linked train of vehicles, each vehicle from said linked train of vehicles functionally identical with said vehicle and each of the electrical and electronic connecting and processing units functionally identical with each of said electrical and electronic connecting and processing units.

38 (new): A vehicle in accordance with claim 33, wherein said opening fully encircled by said full rotor with magnetic and/or electromagnetic means of said electric motor has full or partial cover means hinged or movably linked either to said large toroidal axie or to said vehicle.